**Econometric Research Association Data Analytics and Machine Learning International Conference**

**DATAMACLEA’24 PROGRAMME**

**June 28, 2024**

**Ankara Yıldırım Beyazıt University, Türkiye**

**Esenboğa Campus, B – Block, Floor 3**

**Dive into the Data Deluge: Data Analytics and Machine Learning Conference**

The Econometric Research Association (ERA) is excited to unveil a one-day conference (face to face or online) dedicated to exploring the forefront of data analytics and machine learning (ML) in cooperation with Ankara Yıldırım Beyazıt University where the conference will use the facilities of Faculty of Political Sciences.

**PROGRAMME**

**8.30 – 9.30   
Registration**

**9.30 – 10.30   
Opening Speeches**

**10.30 – 10.45   
Coffee Break**

**10.45 – 12.00   
Keynote Speaker (Moderator: Sıdıka Başçı, Ankara Yıldırım Beyazıt University)**  
  
Prof. Dr. Mehmet CANER, Thurman-Raytheon Distinguished Professor of Economics, Expert in Machine Learning-Finance, Co-Founder Magnus AI, North Caroline State University, USA

Should humans lie to machines?

**12.00 – 13.30   
Lunch Break**

**13.30 – 14.30   
Session 1: Data Analytics I (Moderator: İbrahim Demir, Ankara Yıldırım Beyazıt University)**  
Orhan ERDEM  
University of North Texas  
  
Beyond the Virus: Rent-Price Ratios in Disadvantaged Rental Markets  
  
Mehmet Oğuz TAÇYILDIZ and Asuman ÇUKUR  
Ankara Yıldırım Beyazıt University

Effects of the Covid-19 Process on the Informal Economy in Turkey: Oil Smuggling

Ömer Faruk CAN, Yaren KÜÇÜKKÖR, Gülbin ŞAHİNBEYOĞLU and Berat YÜCEL  
TEPAV  
  
TEPAV Gıda Fiyat Endeksi (TEGE)

Aras ALKIŞ and Erdem BAŞÇI  
TED University  
  
Permanent versus Temporary Price Reductions

İbrahim KAYA  
Allbatros Portfoy  
  
From Headlines to Trendlines: Leveraging Sentiment Analysis for Stock Market Predictions

**13.30 – 14.30   
Session 2: Machine Learning (Moderator: Derya Fındık, Ankara Yıldırım University)**

Mehmet Necati AYSAN and Gıyasettin ÖZCAN  
Radio and Television Supreme Council of Türkiye, Uludağ University, Bursa, Department of Computer Engineering  
  
Utilization of Machine Learning and World Happiness Report Data to Understand Well-Being

Deniz GÖKTAŞ  
Bilecik Şeyh Edebali University, Bozüyük Vocational School  
   
Treatment Effects with Causal Random Forests: An Application on the association between education and depression prevalence in Türkiye Health Surveys

Yunus Emre AKDOĞAN and Süleyman GÜRBÜZ  
Bozok University  
  
Is It Possible to Detect Shrinkflation with the Help of Artificial Intelligence and Machine Learning?

Hassnian ALI, Ahmet Faruk AYSAN and Umar Nawaz KAYANI  
Hamad Bin Khalifa University, Qatar Foundation, Hamad Bin Khalifa University, Qatar Foundation, College of Business, Al Ain University, Abu Dhabi, United Arab Emirates  
  
Generative AI and Ethics: Examining the Intellectual Corpus Using Machine Learning Topic Modeling

Selçuk BAYRAKÇI, Buket DOĞAN and Bilal SEDEF  
Dept. of Data Analytics, Borusan Otomotiv İthalat A.Ş, Avcılar, İstanbul, Turkey, Marmara Üniversitesi, Teknoloji Fakültesi, Bilgisayar Mühendisliği Bölümü, İstanbul, Turkey  
  
Intelligent Demand Forecasting and Optimization in the Automotive Aftermarket: Leveraging Advanced Machine Learning Techniques for Enhanced Inventory Management

**14.30 – 14.45   
Coffee Break**

**14.45 – 15.45   
Session 3: Econometrics (Moderator: Murat Aslan, Ankara Yıldırım Beyazıt University)**

Asad Ul Islam KHAN  
Ibnu Haldun University

Exploring the Performance of Categorical Data Tests of Independence

Shafiq Abass, Emmanuel O. AFUECHETA  
King Fahd Univ. of Petroleum and Minerals, Dept. of Mathematics, Dhahran, KSA

Tail-Related Volatility Modelling for Heteroscedastic Financial Time Series Via APARCH-EVT: Models for the GCC

Okan AKARSU, Emrehan AKTUĞ and Huzeyfe TORUN  
TCMB, Sabancı University, TCMB

Cost Elasticity of Firm Credits: Heterogeneity Across Firm Types

Sundas IFTIKHAR and Hasan VERGIL  
Ibnu Haldun University

Intergenerational Career and Income Mobility Dynamics in Türkiye: An Empirical Bayesian Approach

Mehmet BALCILAR  
University of New Haven, West Haven, CT, US

Can Gold Serve as a Hedge Against Economic Uncertainty? : A Nonparametric Quantile Assessment

**14.45 – 15.45   
Session 4: Data Analytics II (Moderator: Mert Akyüz, Ankara Yıldırım Beyazıt University)**

Kayla SHEVADENA and Sıdıka BAŞÇI  
Ankara Yıldırım Beyazıt University

Nickel-Powered Sustainability: Revolutionizing the Energy Economy Through Lithium Batteries

Büşra AGAN  
Ostim Technical University

Bridging the Gap: How Environmental Policies Drive Cross-Technology Spillovers Between Clean and Dirty Innovations

Zeynep ÖZGÜVEN  
Ege University

Effects of Human Capital on Labor Productivity: EU Region-II

Erdem BAŞÇI, Hakan EMEKÇI and Mehmet Orkun APAYDIN  
TED University

Is there a threshold on money growth?

Houcine SENOUSSI  
CY Tech, CY Cergy Paris université, Cergy, France

Measuring Centrality in Knowledge Graphs

**15.45 – 16.00   
Coffee Break**

**16.00 – 17.30   
Panel – Big Data (Moderator: Murat Yülek, Ostim Technical University)**

Rıfat Aras  
TCMB, Veri Yönetişimi ve İstatistik Genel Müdür Yardımcısı

Esra Ulaşan  
Magnus

Özgür Hakan Aydoğmuş  
Social Sciences University of Ankara

**18.00 – Departure for Conference Gala Dinner**

**Publication Opportunity**

International Econometric Review (IER)

**Supporting Universities**

Ankara Yıldırım Beyazıt University, Türkiye

Anadolu University, Türkiye

Ostim Technical University, Türkiye

**Other Supporting Institutions**

Ulakbim, Türkiye

Management and Economics Club, Ankara Yıldırım Beyazıt University, Türkiye

Economic and Social Research Society, Ostim Technical University, Türkiye

**Sponsors**

Central Bank of the Republic of Türkiye

Turkish Airlines

Ankara Metropolitan Municipality

Ankara Düşünce ve Araştırma Merkezi

**Secretariat**

Bilge Tiryakioğlu

[btiryakioglu@ead.org.tr](mailto:btiryakioglu@ead.org.tr)

Amine İleri

a.ileri@era.org.tr

Ata Sefa Kaplan

atasefakaplan@gmail.com

**Organizing Committee**

Prof. Dr. Hakkı Odabaş, Ankara Yıldırım Beyazıt University, Türkiye

Prof. Dr. Murat Aslan, Ankara Yıldırım Beyazıt University, Türkiye

Assoc. Prof. Dr. Sıdıka Başçı, Ankara Yıldırım Beyazıt University, Türkiye

Assoc. Prof. Dr. Özgür Hakan Aydoğmuş, Social Sciences University of Ankara, Türkiye

Assoc. Prof. Dr. Önder Özgür, Ankara Yıldırım Beyazıt University, Türkiye

Assoc. Prof. Dr. Murad Tiryakioğlu, Afyon Kocatepe University, Türkiye

Dr. Mert Akyüz, Ankara Yıldırım Beyazıt University, Türkiye

**Scientific Committee**

Prof. Dr. Murat Aslan, Ankara Yıldırım Beyazıt University, Türkiye

Prof. Dr. Ahmet Faruk Aysan, Hamad Bin Khalifa University, Qatar

Prof. Dr. Mehmet Balcılar, University of New Haven, USA

Prof. Dr. Erkan Erdil, Middle East Technical University, Türkiye

Prof. Dr. Bülent Güloğlu, Istanbul Technical University, Türkiye

Prof. Dr. Christian Hafner, Université catholique de Louvain, Belgium

Prof. Dr. Muhsin Kar, Central Bank of the Republic of Türkiye, Türkiye

Prof. Dr. Mehmet Baha Karan, Hacettepe University, Türkiye

Prof. Dr. Turalay Kenç, The INCEIF University, Malaysia

Prof. Dr. Yılmaz Kılıçarslan, Anadolu University, Türkiye

Prof. Dr. Arzdar Kiracı, Siirt University, Türkiye

Prof. Dr. Berna Kocaman, Ankara University, Türkiye

Prof. Dr. Aykut Lenger, Ege University, Türkiye

Prof. Dr. Şaban Nazlıoğlu, Pamukkale University, Türkiye

Prof. Dr. Nadir Öcal, Çankaya University, Türkiye

Prof. Dr. Özlem Önder, Ege University, Türkiye

Prof. Dr. Mustafa Özer, Anadolu University, Türkiye

Prof. Dr. Houcine Senoussi, CY Tech, France

Prof. Dr. James Thewissen, Université catholique de Louvain, Belgium

Prof. Dr. Murat Yülek, Ostim Technical University, Türkiye

Prof. Dr. Asad Zaman, Al-Nafi Online Educational Platform, Pakistan

Assoc. Prof. Dr. Adam P. Balcerzak, Universityof Warmia and Mazury, Poland

Assoc. Prof. Dr. Sıdıka Başçı, Ankara Yıldırım Beyazıt University, Türkiye

Assoc. Prof. Dr. Fatih Cemil Özbuğday, Ankara Yıldırım Beyazıt University, Türkiye

Assoc. Prof. Dr. Önder Özgür, Ankara Yıldırım Beyazıt University, Türkiye

Assoc. Prof. Dr. Fatma Özgü Serttaş, Ankara Yıldırım Beyazıt University, Türkiye

Dr. Mehmet Fatih Öztek, Ankara Yıldırım Beyazıt University, Türkiye

Dr. Ayşegül Durucan, Kırıkkale University, Türkiye